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ABSTRACT

A state-wide study is reported on the utilization of classroom, laboratory, and physical education instructional space in private and state-controlled higher educational facilities in Virginia. The report is quantitatively based and includes a discussion of its scope and criteria for validity, summary statements of findings as well as definitions of terms employed, and an appendix which presents the forms used to gather data. A list of cooperating institutions is included. (FPO)

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Utilization of Instructional Space at Virginia's Colleges

PRIVATE AND STATE-CONTROLLED COLLEGES AND UNIVERSITIES • 1967-68

Prepared by
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EF 002 578

STATE COUNCIL OF HIGHER EDUCATION FOR VIRGINIA

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INSTITUTIONS INCLUDED IN THIS REPORT

Four-Year Colleges and Universities

State-Controlled Institutions

George Mason College, Fairfax
Longwood College, Farmville
Madison College, Harrisonburg
Mary Washington College, Fredericksburg
Old Dominion College, Norfolk
Radford College, Radford
Richmond Professional Institute, Richmond
University of Virginia, Charlottesville
Virginia Military Institute, Lexington
Virginia Polytechnic Institute, Blacksburg
Virginia State College, Norfolk
Virginia State College, Petersburg
William and Mary, Williamsburg

Privately Controlled Institutions

Bridgewater College, Bridgewater
Eastern Mennonite College, Harrisonburg
Emory and Henry College, Emory
Frederick College, Portsmouth[a]
Hampden-Sydney College, Hampden-Sydney
Hollins College, Hollins
Institute of Textile Technology, Charlottesville
Lynchburg College, Lynchburg
Mary Baldwin College, Staunton
Presbyterian School of Christian Education, Richmond
Protestant Episcopal Theological Seminary in Virginia, Alexandria
Randolph-Macon College, Ashland
Randolph-Macon Woman's College, Lynchburg
Roanoke College, Salem
Saint Paul's College, Lawrenceville
Sweet Briar College, Sweet Briar
University of Richmond, Richmond
Virginia Union University, Richmond
Virginia Wesleyan College, Norfolk
Washington and Lee University, Lexington

Two-Year Colleges

State-Controlled Institutions

Divisions of the State Department of Community Colleges

Blue Ridge Community College, Weyers Cave
Dabney S. Lancaster Community College, Clifton Forge
John Tyler Community College, Chester
Northern Virginia Community College, Annandale
Virginia Western Community College, Roanoke

Institutions Affiliated with the University of Virginia

Clinch Valley College, Wise
Eastern Shore Branch of the School of General Studies, Wallops Island
Patrick Henry College, Martinsville

Institution Affiliated with Virginia Polytechnic Institute

Danville Division, Danville[b]

Institutions Affiliated with William and Mary

Christopher Newport College, Newport News
Richard Bland College, Petersburg

Privately Controlled Institutions

Averett College, Danville
Bluefield College, Bluefield
Ferrum Junior College, Ferrum
Marymount College, Arlington
Shenandoah College and Conservatory of Music, Winchester[c]
Southern Seminary Junior College, Buena Vista
Stratford College, Danville[d]
Sullins College, Bristol
Virginia Intermont College, Bristol
Virginia Seminary and College, Lynchburg

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[a] Frederick College was donated by the Beazley Foundation to the Commonwealth of Virginia to become a community college operated by the State Board for Community Colleges. Effective date of transfer July 1, 1968.

[b] Danville Division of Virginia Polytechnic Institute will merge July 1, 1968 with the Danville Community College (an institution operated by the State Board for Community Colleges but not included in this study).

[c] Shenandoah College and Conservatory of Music is also accredited for a four-year program leading to a bachelor's degree in music.

[d] Stratford College is in transition to a four-year status; third-year courses were offered during the 1967-68 academic year.

INTRODUCTION

During the fiscal year 1968 the State Council of Higher Education conducted a state-wide comprehensive study of private and state-controlled higher educational facilities as part of a comprehensive planning study funded by the Division of College Facilities of the U.S. Office of Education. This research was designed to provide insightful data and analyses of current facilities which might be used to forecast long-range construction needs for higher education in Virginia.

One analysis fundamental to the determination of long-range physical facilities needs is a study of the utilization of existing space. Such a study can provide clues concerning the efficiency of the management of existing facilities, and thereby assist institutions in achieving greater utilization of existing facilities in the years ahead. Further, a state-wide utilization study can also be helpful in developing realistic space utilization standards which may serve as guides for determining future construction needs to meet anticipated increases in enrollments in higher education in Virginia.

This report on the utilization of classroom, laboratory, and physical education instructional space represents one of the facility planning activities included in this study. It is also a further interpretation of the inventory data presented in the State Council's report, Physical Facilities at Institutions of Higher Education in Virginia (July, 1968), which was also supported by the U.S. Office of Education grant.

SCOPE OF THE REPORT

This report utilizes data obtained in a study of the physical plants and regularly scheduled resident day classes of the participating colleges and universities (see listing on page 1). Data on leased or rented facilities and resident day instruction conducted in these non-state owned buildings at the state-controlled institutions (with the exception of Patrick Henry College) have been excluded. State-controlled institutions completely housed in non-state owned facilities and omitted from this study are Central Virginia, Danville, and Wytheville Community Colleges. The Medical College of Virginia, the Departments of Marine Science and Medical Instruction and related facilities at the University of Virginia, the School of Marine Science at William and Mary, and the Virginia Associated Research Center have also been excluded from the study.

Thirty of the 32 privately controlled institutions of higher education in Virginia accepted the invitation to participate in the space utilization study and provided the data requested for their regularly scheduled resident day classes and physical plants. It was agreed that private institutions would be identified by code number only, with officials of each college being informed of their institutional code number. Long-term lease facilities of the privately controlled institutions and the regularly scheduled resident day classes conducted therein have been included in this report.

For the purposes of this study, data on the regularly scheduled classes requiring instructional space from 7 a.m. to 5 p.m., Monday through Saturday, have been included for all institutions. Classes held in facilities not classified as instructional space have been omitted. The daily time period has been divided into ten 50-minute periods, with 10-minute intervals between periods. Appropriate adjustments have been made in the data to equate classes with irregular class hours to the 50-minute periods. Data of institutions which were not on a semester or quarter schedule have been processed in a specific manner to equate the findings in terms of a normal schedule.

The total instructional classroom space analyzed in this report for the state-controlled institutions is 900,770 assignable square feet. This represents 28.1 per cent of the total instructional space and 16.3 per cent of the total educational and general space of the state institutions. For the private institutions, the 517,841 assignable square feet in instructional classroom space analyzed constitutes 26.4 per cent of the total instructional space and 16.0 per cent of the total educational and general space for these institutions.

The 823,160 assignable square feet of instructional laboratory space for state-controlled institutions considered in this report is 25.8 per cent of the total instructional space and 14.9 per cent of the total educational and general space of the state institutions. For the private institutions, the 241,489 assignable square feet in instructional laboratory space represents 12.4 per cent of the total instructional space and 7.4 per cent of the total educational and general space for private institutions.

For physical education instructional space of the state-controlled institutions, the 279,025 assignable square feet analyzed in this report is 8.7 per cent of the total instructional space and 5.1 per cent of the total educational and general space of the state institutions. For the private institutions, the 509,574 assignable square feet in physical education instructional space represents 26.0 per cent of the total instructional space and 15.7 per cent of the total educational and general space for private institutions.

This report reflects the utilization of classroom, laboratory, and physical education instructional space only. Other space such as instructional service areas, faculty offices, etc., although classified as instructional space, is not included in these analyses.

It also should be emphasized that this study is based on quantitative data only. No qualitative analyses of the space available in each of the three classifications have been accomplished.

Criteria for the Validity of Report

A report of this nature is valid only to the extent to which the basic information from which it is derived is accurate. This necessitates constant checking and rechecking of data between faculty members, registrar, physical facilities personnel, and other college officials. If a change of room assignment is not reported, or if a change in the room numbering system is not entered on blueprints and other records, any number of inaccuracies may result. For example, a class of one hundred students may appear to be assigned to a small seminar room. Cooperation and communication between many departments are therefore necessary to insure a workable physical facilities inventory and utilization report which will be of maximum value to institutional and other higher educational planners.

Figure 1 - Comparison of Instructional Classroom Utilization by Type of Institution, Fall, 1967

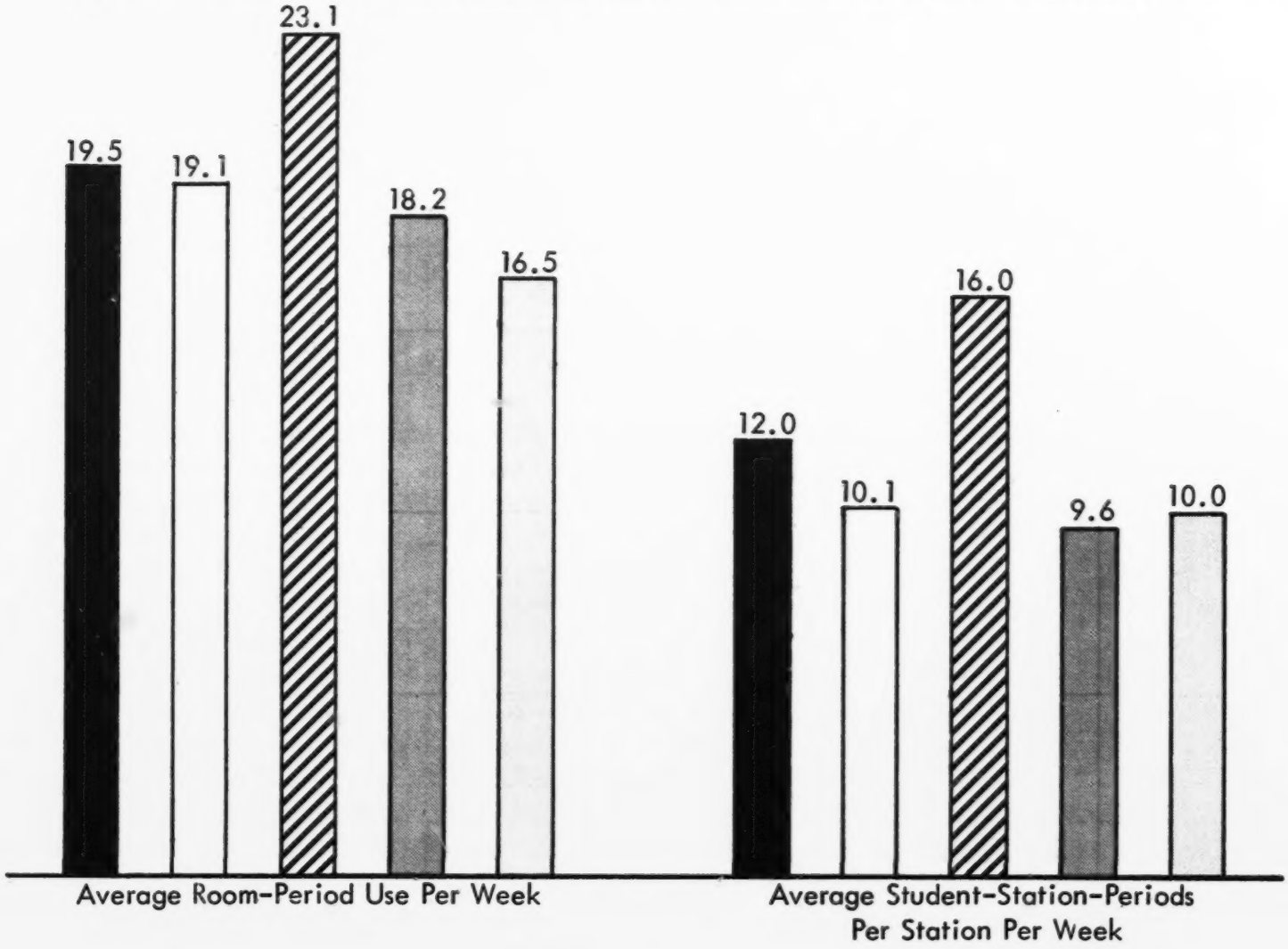
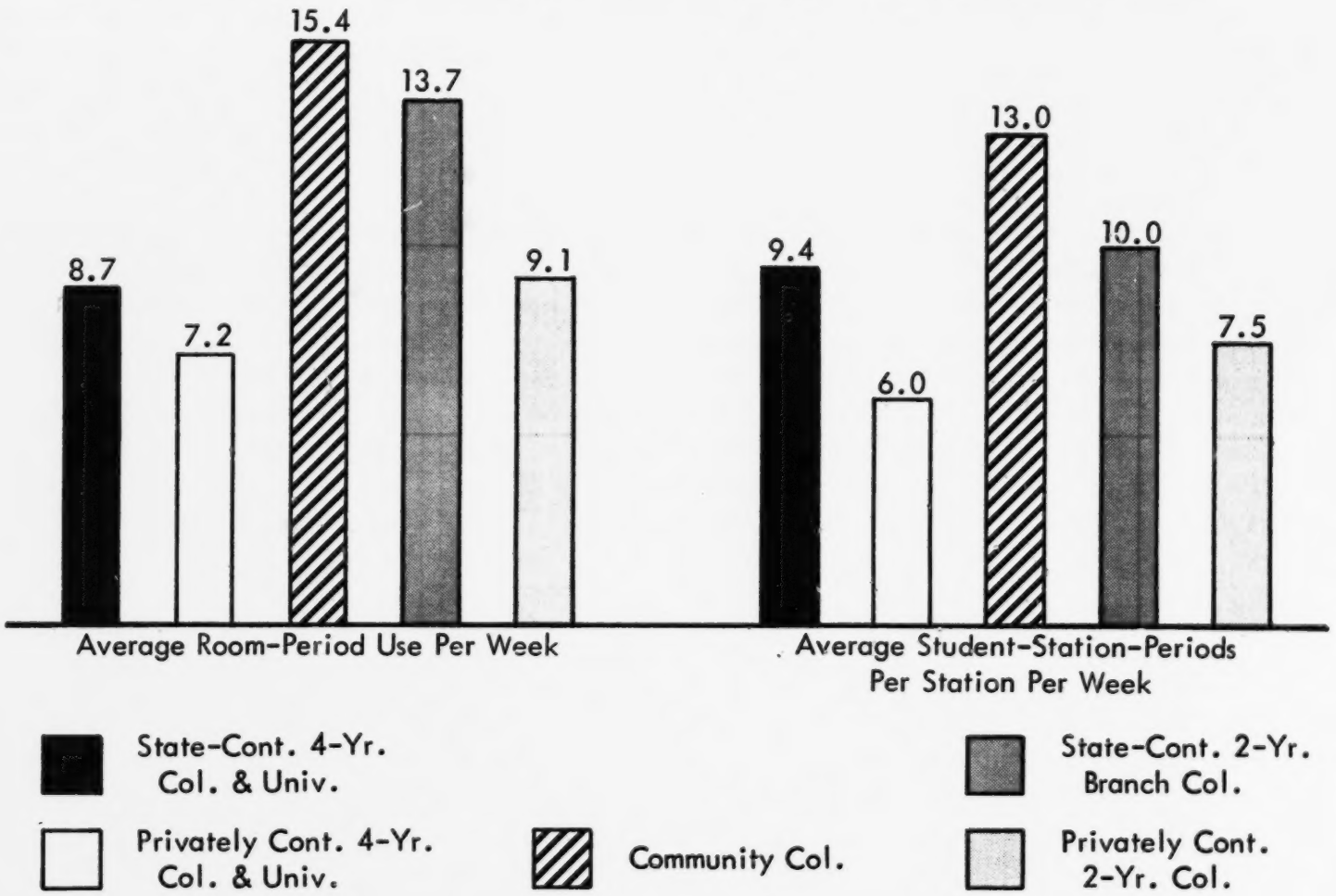


Figure 2 - Comparison of Laboratory Utilization by Type of Institution, Fall, 1967



DEFINITIONS OF TERMS

Average Room-Period Use Per Week--The average room-period use per week is obtained by dividing the total room periods used per week by the number of rooms.

Average Student-Station-Periods Per Station Per Week--The average student-station-periods per station per week is obtained by dividing the total student-station-periods occupied by the total number of student-stations.

Class Enrollment--The number of students in a class. The class enrollment includes all students who required accommodations in the place where the class met, whether they were enrolled for credit, or as auditors.

Day Full-Time-Equivalent (FTE) Student--A statistic derived from the student-credit-hour productivity of an institution. The number of full-time-equivalent "day" students is derived by dividing the total number of undergraduate, first professional, and graduate semester or quarter credit-hours produced prior to 5 p.m. by 15, 15, and 12, respectively.

General Classroom--All instructional rooms designed for regularly organized lectures, recitations, and seminars which do not require special equipment for student use. The seating area of an auditorium or theater used primarily for scheduled class sessions has also been included under this classification.

Laboratory--All instructional rooms used by regularly scheduled classes and equipped or designed for special teaching or research purposes such as chemistry laboratories, psychology laboratories, language laboratories, and the like. For the purposes of this study, space categorized as instructional shops such as industrial arts shops has been combined with the rooms classified as laboratories.

DEFINITIONS (Continued)

Per Cent of Station Use Per Week When Rooms in Use--The per cent of station use when rooms in use indicates the extent to which the total student-stations of the rooms are filled only during those hours that regularly scheduled classes are held in them.

Period--A unit of time, consisting of 50 minutes, which represents the time a class would normally be assembled. All the institutions presented in this study generally have class periods of 50 minutes of instruction with 10-minute intervals for changing classes. Class meetings of two consecutive 50-minute periods (a total of 110 minutes) have been considered as two class periods for the purposes of this study. Classes meeting for periods other than 50 minutes have been included in this study as proportional parts of the standard 50-minute period. For example, a class meeting 90 minutes has been included in this study as 1.8 class periods.

Physical Education Room--All instructional rooms specially designed or equipped for use in physical education. Playing floors, wrestling and boxing rooms, indoor swimming pools, indoor track and field areas, and other similar areas used primarily for instruction have been included in this category.

Room-Period Use--The number of periods that a room is occupied by a class. For the purposes of this study, a room was considered to be used whenever a scheduled class was held in it, regardless of the relationship of the student enrollment to the size of seating capacity of the room.

Student-Station--An instructional area with a chair, desk, laboratory table, or other furnishing which will accommodate one student for one period of instruction.

Student-Station-Periods Occupied--The occupancy by a student of one student-station for one room period. For example, a room utilized for five room periods on a given day with a class size of 30 students for each room period would have 150 student-station-periods occupied during that day.

SUMMARY UTILIZATION TABLES OF CLASSROOMS, LABORATORIES, AND PHYSICAL EDUCATION ROOMS

The tables which follow present a summary of room-period and student-station-period utilization for general classrooms, laboratories, and physical education space at Virginia's colleges. The data presented in these tables were derived from information obtained from two sources. First, information about each room at each institution, including such items as room number, functional code, room type code, square footage, and number of stations, was obtained on State Council of Higher Education for Virginia Forms F-1 and F-1A, "Room Inventory" (Items 1 and 2 in the Appendix). Second, information about each class at each institution, including such items as course number, credit value, enrollment, days of week, hours of day, building code, and room number, was obtained on State Council of Higher Education for Virginia Forms A-1 and A-1A, "Resident Classes Taught" (Items 3 and 4 in the Appendix). The student-station occupancy and room-period use by room were obtained on State Council of Higher Education for Virginia Form F-4U, "Room Utilization" (Item 5 in the Appendix).

Table 1 provides an institution-by-institution analysis of general classroom utilization. The second column of Table 1 shows the average room-period use per week (obtained by dividing the total number of rooms into the total room periods used per week). It can be seen from column two that institutions ranged from a high of 31.3 periods per week to a low of 3.1 periods per week. The average for all institutions was 19.1 periods per week from 7 a.m. to 5 p.m.

The average student-station-periods per station per week (obtained by dividing the total student-station-periods occupied per week by the number of student stations) is presented in column five. The student-station-period utilization figures reflect not only the hours that rooms are not used but also the stations that are not used when rooms are used. These data can be clearly influenced by the manner in which the number of stations per classroom is reported. In a few instances the data indicate that a classroom having a listed capacity of 20 sometimes has as many as 30 students scheduled in the room. The average student-station-periods per station for all institutions is 11.3 periods per week.

Column six presents the per cent of station use when room in use per week for general classrooms. In this calculation, the hours when rooms are not used are disregarded. The average for all institutions is 59.4 per cent with the institutions ranging from a high of 90.1 per cent to a low of 33.2 per cent.

The student-station-periods occupied per week per full-time-equivalent student is derived by dividing the "day" FTE students into the total student-station-periods occupied per week. "Student-station-periods occupied per FTE student" is a statistic that represents the average number of hours per week that a student carrying a full load will occupy a seat in a classroom. The average for all institutions is 12.1 periods. The fact that student-station-period use per FTE student varies from 15 (the number of semester hours for a FTE student) is due to the fact that many students spend their in-class time in rooms other than those classified as classrooms.

The last column on Table 1 presents the square feet per student-station-period occupied. This figure is obtained by dividing the total student-station-periods occupied per week into the total square feet for all classrooms. The average for all institutions is 1.5 square feet.

TABLE 1 • SUMMARY OF CLASSROOM UTILIZATION

Institution	Total Room Periods Used Per Week	Average Room-Period Use Per Week	Number of Student-Stations	Total Student-Station-Periods Occupied Per Week	Average Student-Station-Periods Per Station Per Week	Per Cent of Station Use Per Week When Room in Use	Student-Station-Periods Occupied Per Week Per FTE Student	Square Feet Per Student-Station-Period Occupied
State-Cont. Inst.								
4-Yr. Col. & Univ.:								
Geo. Mason	595	25.9	1,459	14,556	10.0	38.5	13.7	1.5
Longwood	968	13.3	2,299	22,093	9.6	72.3	12.5	2.0
Madison	1,136	15.1	2,756	30,052	10.9	72.2	10.4	1.9
MWC	1,750	26.1	2,558	30,818	12.0	46.2	13.5	1.7
Old Dom.	2,263	23.1	4,799	65,455	13.6	59.0	12.5	1.0
Radford	1,526	22.4	2,086	40,097	19.2	85.8	11.9	1.1
RPI	1,545	18.4	3,552	43,656	12.3	66.8	8.3	1.2
U. Va.	2,756	18.6	7,413	83,144	11.2	60.3	10.4	1.4
VMI	880	11.4	3,561	18,162	5.1	44.7	12.8	3.4
VPI	3,601	24.2	6,684	120,522	18.0	74.5	12.3	0.9
Va. St.-Norf.	1,867	22.8	3,309	43,981	13.3	58.3	14.9	1.2
Va. St.-Ptsbg.	1,227	14.8	3,568	24,801	7.0	47.0	12.4	2.4
Wm. & Mary	1,720	18.3	4,461	42,754	9.6	52.4	11.4	1.7
4-Yr. Col. & Univ.	21,834	19.5	48,505	580,091	12.0	61.3	11.6	1.4
Community Col.:								
Blue Ridge CC	260	18.6	509	8,215	16.1	86.8	13.8	1.1
D. Lancaster CC	125	31.3	164	2,203	13.4	42.9	11.3	1.4
John Tyler CC	474	26.3	633	11,263	17.8	67.7	14.2	1.0
Northern Va. CC	268	14.9	749	6,670	8.9	59.8	4.4	2.2
Va. Western CC	489	30.6	472	12,047	25.5	83.4	11.7	0.7
Community Col.	1,616	23.1	2,527	40,398	16.0	69.2	9.8	1.2
2-Yr. Branch Col.:								
C. Newport	278	17.4	988	7,148	7.2	41.6	13.9	2.0
Cl. Valley	346	28.8	573	7,071	12.3	42.8	14.3	1.2
Danville	128	18.3	335	3,592	10.7	58.6	10.9	1.8
E. Shore	44	3.1	234	521	2.2	71.8	9.1	7.0
Pat. Henry	112	16.0	210	2,230	10.6	66.4	18.3	1.6
R. Bland	277	30.8	357	5,407	15.1	49.2	11.1	1.3
2-Yr. Branch Col.	1,185	18.2	2,697	25,969	9.6	52.9	13.0	1.7
All State-Cont. Inst.	24,635	19.6	53,729	646,458	12.0	61.4	11.6	1.4
Privately Cont. Inst.								
4-Yr. Col. & Univ.:								
28	581	18.2	1,313	12,473	9.5	52.2	13.8	1.8
40	542	19.4	1,412	14,739	10.4	53.8	15.2	1.4
22	603	17.2	1,301	10,187	7.8	45.5	13.9	1.9
27	813	31.3	1,056	18,902	17.9	57.2	16.8	1.0
25	922	14.4	2,097	17,760	8.5	58.8	13.7	2.4
32	629	15.7	1,393	14,097	10.1	64.5	14.7	2.1
35	519	28.8	613	7,213	11.8	40.9	12.1	1.3
23	642	20.1	1,280	10,645	8.3	41.4	11.0	1.8
37	613	19.8	1,068	10,094	9.5	47.7	14.7	1.6
24	2,153	22.7	3,926	40,859	10.4	45.8	13.9	1.5
26	104	17.3	218	1,945	8.9	51.6	13.8	1.6
39	364	13.0	1,071	7,815	7.3	56.1	16.5	2.2
38	627	14.9	1,521	10,771	7.1	47.5	12.1	2.0
30	71	10.1	357	1,197	3.4	33.2	7.3	4.9
29	131	8.7	610	2,216	3.6	41.8	11.7	4.3
34	34	17.0	40	480	12.0	70.6	8.7	1.5
33	532	21.3	1,026	11,113	10.8	50.9	12.5	1.5
36	444	17.1	872	9,780	11.2	65.6	14.1	1.5
41	400	16.7	568	8,543	15.0	90.1	11.2	1.5
31	996	26.2	1,086	19,601	18.0	68.9	13.1	1.1
4-Yr. Col. & Univ.	11,720	19.1	22,828	230,430	10.1	52.8	13.6	1.7
2-Yr. Col.:								
45	264	26.4	383	5,817	15.2	57.5	11.5	1.0
44	520	20.0	772	8,780	11.4	56.9	16.7	1.5
51	381	15.9	727	8,793	12.1	76.1	15.1	1.3
48	483	22.0	724	13,374	18.5	84.0	14.2	1.2
47	385	17.5	598	7,749	13.0	74.0	11.1	1.8
49	94	8.5	503	2,056	4.1	48.1	18.2	3.5
42	267	19.1	479	6,752	14.1	73.8	15.0	1.3
46	196	8.9	1,176	6,196	5.3	59.2	7.9	2.7
50	253	14.1	612	5,440	8.9	63.0	15.1	2.2
43	566	14.9	1,130	6,400	5.7	38.0	16.6	4.1
2-Yr. Col.	3,409	16.5	7,104	71,357	10.0	60.9	13.3	1.9
All Privately Cont. Inst.	15,129	18.4	29,932	301,787	10.1	54.8	13.5	1.7
All Institutions	39,764	19.1	83,661	948,245	11.3	59.4	12.1	1.5

Facility data relating to the utilization of instructional laboratories at Virginia's private and state-controlled colleges and universities are presented in Table 2. It is apparent from Table 2 that instructional laboratories are not scheduled as heavily as classrooms. This is to be expected as often such space has special equipment for use by the department to which it is assigned.

The average room-period use for all institutions is 8.8 periods per week from 7 a.m. to 5 p.m. The individual institutions range from a high of 36.4 to a low of 1.8 room periods per week.

The number of student-stations in column three was obtained from the Room Inventory Report (Items 1 and 2 in the Appendix). These figures therefore represent the actual number of student-stations in the laboratories as of the census date for the Fall semester of 1967.

The data for total room periods used per week in column one and the total student-station-periods occupied per week in column four is the result of a merger of the Room Inventory Report and Resident Classes Taught Report on the data processing printouts for Form F-4U (Item 5 in the Appendix).

The fifth column of Table 2 shows the average student-station-periods per station per week. For all institutions this is 8.8 periods per week. The range among individual institutions is from a high of 21.9 to a low of 0.7 periods per station per week.

The student-station-periods occupied per week per "day" FTE student for instructional laboratories is determined in the same manner as for general classrooms. The average student-station-periods occupied per week per FTE student for all institutions is 3.1 periods. When this figure is added to the total institutional average of 12.1 periods occupied per FTE student for classrooms, the result is 15.2 periods which closely represents the number of semester hours for a full-time-equivalent student.

The last column on Table 2 presents the square feet per student-station-period occupied. The average for all institutions is 4.4 square feet, which is understandably higher than the average for classrooms for all institutions.

TABLE 2 • SUMMARY OF LABORATORY UTILIZATION[a]

Institution	Total Room Periods Used Per Week	Average Room-Period Use Per Week	Number of Student-Stations	Total Student-Station-Periods Occupied Per Week	Average Student-Station-Periods Per Station Per Week	Student-Station-Periods Occupied Per Week Per FTE Student	Square Feet Per Student-Station-Period Occupied
State-Cont. Inst.							
4-Yr. Col. & Univ.:							
Geo. Mason	120	20.0	166	2,193	13.2	2.1	2.7
Longwood	221	6.1	890	4,520	5.1	2.5	4.5
Madison	434	8.3	768	9,186	12.0	3.2	3.3
MWC	351	9.0	773	4,633	6.0	2.0	6.0
Old Dom.	842	9.9	1,502	18,166	12.1	3.5	3.7
Radford	294	13.4	455	5,737	12.6	1.7	3.1
RPI	1,365	11.5	2,744	29,061	10.6	5.5	2.9
U. Va.	690	5.0	2,557	19,141	7.5	2.4	5.3
VMI	233	4.9	1,589	4,964	3.1	3.5	11.9
VPI	1,544	9.0	3,235	40,762	12.6	4.2	4.4
Va. St.-Norf.	649	16.2	1,093	14,173	13.0	4.8	3.2
Va. St.-Ptsbg.	870	8.5	1,893	11,829	6.3	5.9	5.6
Wm. & Mary	374	5.8	780	8,438	10.8	2.2	4.0
4-Yr. Col. & Univ.	7,987	8.7	18,445	172,803	9.4	3.5	4.3
Community Col.:							
Blue Ridge CC	36	6.0	152	782	5.1	1.3	6.1
D. Lancaster CC	117	23.4	129	1,661	12.9	8.5	3.2
John Tyler CC	218	16.8	283	3,176	11.2	4.0	4.0
Northern Va. CC	96	12.0	229	2,309	10.1	1.5	3.7
Va. Western CC	319	16.8	292	6,158	21.1	6.0	2.1
Community Col.	786	15.4	1,085	14,086	13.0	3.4	3.1
2-Yr. Branch Col.:							
C. Newport	89	9.9	192	1,764	9.2	3.4	5.4
Cl. Valley	107	8.9	307	2,197	7.2	4.5	5.3
Danville	87	17.4	186	2,186	11.8	6.6	2.9
E. Shore	12	4.0	32	126	3.9	2.2	6.6
Pat. Henry	30	30.0	24	526	21.9	4.3	1.3
R. Bland	238	21.6	251	3,119	12.4	6.4	2.8
2-Yr. Branch Col.	563	13.7	992	9,918	10.0	5.0	3.8
All State-Cont. Inst.	9,336	9.2	20,522	196,807	9.6	3.5	4.2
Privately Cont. Inst.							
4-Yr. Col. & Univ.:							
28[b]	--	--	--	--	--	--	--
40	95	5.9	176	1,953	11.1	2.0	4.1
22	199	9.0	311	2,133	6.9	2.9	7.4
27	136	19.4	341	3,365	9.9	3.0	3.8
25	103	2.3	623	906	1.4	0.7	26.8
32	39	7.8	86	731	8.5	0.8	7.1
35	12	2.4	201	144	0.7	0.2	18.4
23	266	5.1	359	3,345	9.3	3.5	5.9
37	126	11.5	225	2,041	9.1	3.0	3.4
24	226	8.1	670	4,281	6.4	1.5	5.1
26	12	6.0	70	184	2.6	1.3	11.6
39	45	5.6	207	840	4.1	1.8	6.3
38	173	7.5	477	2,003	4.2	2.2	7.1
30	9	1.8	191	158	0.8	1.0	32.7
29[c]	--	--	--	--	--	--	--
34	255	36.4	41	633	15.4	11.5	8.9
33	129	6.5	409	2,304	5.6	2.6	6.0
36	123	10.3	188	2,058	10.9	3.0	2.5
41	111	8.5	303	2,436	8.0	3.2	3.3
31	54	4.2	245	1,039	4.2	0.7	7.0
4-Yr. Col. & Univ.	2,113	7.2	5,123	30,554	6.0	1.9	6.0
2-Yr. Col.:							
45	47	15.7	81	924	11.4	1.8	3.0
44	38	19.0	30	603	20.1	1.2	3.9
51	29	9.7	71	713	10.0	1.2	3.6
48	99	11.0	228	2,206	9.7	2.3	3.6
47	82	9.1	231	1,723	7.5	2.5	4.7
49[d]	--	--	12	--	---	--	--
42	47	6.7	143	1,017	7.1	2.3	4.6
46	63	5.3	283	1,272	4.5	1.6	8.1
50	35	8.8	80	435	5.4	1.2	5.3
43	96	10.7	196	1,229	6.3	3.2	5.4
2-Yr. Col.	536	9.1	1,355	10,122	7.5	1.9	4.8
All Privately Cont. Inst.	2,649	7.5	6,478	40,676	6.3	1.9	5.7
All Institutions	11,985	8.8	27,000	237,483	8.8	3.1	4.4

[a]The calculation dealing with the "per cent of station use when room in use per week" was omitted from this analysis, since it was determined that more extensive editing of the data was required prior to their dissemination.

[b]Because of inconsistency of data, this institution was omitted from the analysis.

[c]No instructional laboratories were reported by this institution.

[d]This institution reports one laboratory with no utilization.

Table 3 depicts the utilization of physical education space for each institution. Some of the columns used on the two previous tables have been omitted from Table 3 as the number of student-stations were not obtained on the Room Inventory Report for physical education space because of the nature of this space.

Some institutions reported physical education space but presented no utilization of such space (see footnote "a"). There were twelve institutions without any physical education space.

The average room-period use per week from 7 a.m. to 5 p.m. for all institutions is 9.5 periods per week. Individual institutions range from a high of 44.0 to a low of 1.2 periods per week.

The average student-station-periods occupied per week per "day" FTE student for all institutions is 0.8 periods.

The last column on Table 3 presents the square feet per student-station-period occupied and reveals that the average for all institutions is 14.3 square feet.

TABLE 3 • SUMMARY OF PHYSICAL EDUCATION UTILIZATION

Institution	Total Room Periods Used Per Week	Average Room-Period Use Per Week	Total Student-Station-Periods Occupied Per Week	Student-Station-Periods Occupied Per Week Per FTE Student	Square Feet Per Student-Station-Period Occupied
State-Cont. Inst.					
4-Yr. Col. & Univ.:					
Geo. Mason	8	8.0	122	0.1	8.2
Longwood	71	14.2	1,428	0.8	6.4
Madison	132	44.0	4,247	1.5	2.8
MWC	67	9.6	2,817	1.2	5.2
Old Dom.	98	14.0	5,252	1.0	3.0
Radford	119	39.7	2,578	0.8	5.8
RPI	64	21.3	2,060	0.4	4.7
U. Va.	117	10.6	2,074	0.3	14.8
VMI	45	7.5	1,051	0.7	31.2
VPI	126	21.0	5,407	0.6	5.0
Va. St.-Norf.	55	27.5	1,803	0.6	10.3
Va. St.-Ptsbg.	74	18.5	1,657	0.8	15.0
Wm. & Mary	209	20.9	4,667	1.2	9.0
4-Yr. Col. & Univ.	1,185	17.4	35,163	0.7	7.2
Community Col.:					
Blue Ridge CC	--	--	--	--	--
D. Lancaster CC	--	--	--	--	--
John Tyler CC	--	--	--	--	--
Northern Va. CC	--	--	--	--	--
Va. Western CC	--	--	--	--	--
Community Col.	--	--	--	--	--
2-Yr. Branch Col.:					
C. Newport	53	13.3	1,248	2.4	13.6
Cl. Valley	40	8.0	643	1.3	7.8
Danville	--	--	--	--	--
E. Shore	--	--	--	--	--
Pat. Henry	--	--	--	--	--
R. Bland	32	16.0	432	0.9	9.0
2-Yr. Branch Col.	125	11.4	2,323	1.6	11.1
All State-Cont. Inst.	1,310	16.6	37,486	0.7	7.4
Privately Cont. Inst.					
4-Yr. Col. & Univ.:					
28	27	6.8	1,297	1.4	13.6
40	23	3.8	936	1.0	12.6
22[a]	--	--	--	--	--
27	38	19.0	1,490	1.3	5.7
25[a]	--	--	--	--	--
32	46	15.3	1,014	1.1	18.4
35	8	2.0	46	0.1	96.8
23[a]	--	--	--	--	--
37[a]	--	--	--	--	--
24	9	2.3	25	0.0	778.0
26[a]	--	--	--	--	--
39	12	12.0	534	1.1	19.8
38	49	8.2	803	0.9	24.7
30	--	--	--	--	--
29	--	--	--	--	--
34	--	--	--	--	--
33	20	5.0	872	1.0	10.9
36	16	8.0	620	0.9	16.6
41	32	5.3	1,458	1.9	142.8
31	34	11.3	1,960	1.3	6.2
4-Yr. Col. & Univ.	314	4.3	11,055	0.7	36.0
2-Yr. Col.:					
45[a]	--	--	--	--	--
44	25	8.3	660	1.3	14.2
51	34	17.0	786	1.3	10.0
48	52	10.4	1,800	1.9	10.0
47	58	9.7	1,036	1.5	13.5
49	--	--	--	--	--
42	20	1.2	706	1.6	27.4
46	21	3.5	926	1.2	19.9
50	24	6.0	329	0.9	69.4
43	22	22.0	273	0.7	5.9
2-Yr. Col.	256	5.6	6,516	1.2	17.1
All Privately Cont. Inst.	570	4.8	17,571	0.8	29.0
All Institutions	1,880	9.5	55,057	0.8	14.3

[a]Institutions with no utilization of Physical Education Space.

APPENDIX

STATE COUNCIL OF HIGHER EDUCATION FOR VIRGINIA
Richmond, Virginia

Form F-1
Room Inventory

Institution _____ (1-4) Completed by _____

Name of Building _____ (5-7) Page Number _____

Room Number (8-12)	Functional Use Code (13)	Room Type Code (14-15)	Subject Field Code (16-19)	Square Feet (20-24)	Complete for Codes 1-01, 1-02, 1-03, 1-20, and 1-21 only: Number Actual Stations (25-27)	Assignable Square Feet per Actual Station (28-30)	This Column for SCHEV Use Only (31-33)

The Room Inventory Report (Form F-1) for the state-controlled institutions was designed to obtain pertinent information about each room at each institution in a manner which would facilitate data processing of the reported information. For this study room inventory information has been related to data reported on Resident Classes Taught Report (Form A-1).

(Complete one line for each room.)

STATE COUNCIL OF HIGHER EDUCATION FOR VIRGINIA
Richmond, Virginia

Form F-1A
Room Inventory

Institution _____ (1-4)

Completed by _____

Name of Building _____ (5-7)

Page Number _____

Room Number (8-12)	Functional Use Code (13)	Room Type Code (14-16)	Subject Field Code (17-19)	Square Feet (20-24)	Complete for Codes 1-110, 1-210, 1-310, and 1-311 only: Number Actual Stations (25-27)	Assignable Square Feet per Actual Station (28-30)	This Column for SCHEV Use Only (31-33)

The Room Inventory Report (Form F-1A) developed for the privately controlled institutions to report information about each room is a modification of the form (Form F-1) used by the state-controlled institutions. Information reported on Form F-1A has been related to that received on Resident Classes Taught Report (Form A-1A) to obtain the actual utilization of classroom, laboratory, and physical education instructional space.

(Complete one line for each room.)

ITEM 3 • RESIDENT CLASSES TAUGHT REPORT (STATE CONTROLLED)

STATE COUNCIL OF HIGHER EDUCATION FOR VIRGINIA
Richmond, Virginia 23219

Form A-1 (9/67)
Resident Classes Taught by Term

Page _____ of _____

Institution _____ Institution Code (1-4) _____ Prepared by _____ Census Date _____

Department _____ Semester 1 _____ 2 _____ Quarter 1 ___ 2 ___ 3 ___ Summer Session _____ Academic Year _____

1	2	3	4	5	6	7	8	9						10	11						12	13	14	15	16
								Student Enrollment							Student Credit Hours										
Dept.	Course No.	Sec. No.	Crs. Lvl.	Course Subject Field Code	Instructor Social Security Number	Instructor	Title of Course	F	L	U	P	G	T	Credit Value	F	L	U	P	G	T	T or D	Days of Week	Hours of Day	Bldg. Code	Room No
5-6	7-10	11-13	14	15-20	21-29									30-33	34-36	37-40	41-44	45-48	49-52	53-56	57	58-63	64-71	72-74	75-7

The Resident Classes Taught by Term Report (Form A-1) for the state-controlled institutions is a multi-purpose form developed by the State Council to compute full-time-equivalent enrollment by student levels and subject fields, to assemble information on courses, student credit-hour teaching loads, space utilization, and other aspects of the instructional program. For the purposes of this space utilization study and other analyses, Form A-1 has been designed to facilitate data processing of the reported information. After the data have been recorded on punched cards they can be related to other reports received from the institutions which have been similarly processed. For example, for this study, instructional room utilization reported on this form has been related to instructional rooms available as reported on the state-controlled institutions' Room Inventory Report (Form F-1A).

STATE COUNCIL OF HIGHER EDUCATION FOR VIRGINIA
Richmond, Virginia

Form A-1A
Resident Classes Taught

Institution _____ (1-4) Prepared by _____

Department _____ Census Date _____ Academic Year _____ Page _____ of _____

1	2	3	4	5	6	7	8	9	10	11
Dept. (5-6)	Course No. (7-10)	Section No. (11-13)	Course Level (14)	Number Students	Credit Value (30-33)	Student Credit Hours (53-56)	Days of Week (58-63)	Hours of Day (64-71)	Building Name (72-74)	Room No. (75-79)

The Resident Classes Taught Report (Form A-1A) for the privately controlled institutions to report data on room utilization is a modification of Form A-1 used by the state-controlled institutions. This form has also been designed to facilitate data processing of the reported information. For the purposes of this study data reported on Form A-1A have been related to information received on Room Inventory Report (Form F-1A).

STATE COUNCIL OF HIGHER EDUCATION FOR VIRGINIA
Richmond, Virginia 23219

Form F-4U
(Utilization)

Institution _____

Name of Building _____ Room Number _____ Room Type Code _____ Functional Code _____

Assignable Square Feet _____ No. Stations _____ Assignable Sq. Ft. per Actual Station _____

Subject Field Code _____

Period of the Day	Day of the Week						Total Student-Station Occupancy	Total Room-Period Use
	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.		
7-8 a.m.								
8-9 a.m.								
9-10 a.m.								
10-11 a.m.								
11-12 a.m.								
12-1 p.m.								
1-2 p.m.								
2-3 p.m.								
3-4 p.m.								
4-5 p.m.								
Total Student-Station Occupancy								
Total Room-Period Use								

Form F-4U was used in combining the data from the Room Inventory Report and the Resident Classes Taught Report to present the total student-station occupancy and total room-period use by room. The combining of these two sources of data was achieved by computer with many checks and rechecks included to assure the data were valid.